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a strait Line, whose Squares are equal to the sums or differences of the Rectangles and Squares of a Line, and its Segments and other assumed Lines, in all the variety and combinations thereof.

Liber III.

In quo Loci variarum dispositionum Limites assignantur.

Here is the determination of the *Loci plani* and *Solidi* that arise from several ways different from the former. For example, if from two given points there be drawn several pairs of strait Lines, whose Squares together be equal to a given Square, the concurrence of each pair is in the *Locus planus* of a Circle there determined. And (the other conditions remaining) if of each pair of Strait Lines one be drawn from a given point, and the other be perpendicular to a given strait Line, the concurrence is in the *Locus Solidus* of an *Ellipsis* there determined. Afterwards there are several Problems concerning Arithmetical, Geometrical, and Harmonical mean proportionals betwixt two Extreames, and divers Methods for describing the Conick Sections by points. There are also subjoyned several *addenda* to all the preceding three Books.

At the end of the Book are Prints of the *Orthography* and *Gate* of a *Stately House* built by the Author *Vincenzio Viviani* at *Florence*, with the *Inscriptions* on the front thereof in honour of the *French King Lewis XIV*, from whom he had an annual Pension for many years: and of the *Family of the Great Duke of Tuscany*; and of his Preceptor the Famous *Galileo Galilei*, with a Print of *Galileo's Busto in Brass*, which is set over the Gate.

ERRATA. P. 1581. l. 22. after *refract* r. *vitiosus*.